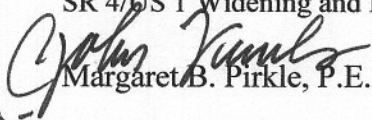



D.O.T. 66

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** P. I. No. 222510, Emanuel-Jefferson Counties **OFFICE** Preconstruction  
EDS-545(50)  
SR 4/US 1 Widening and Reconstruction **DATE** June 22, 2005  
**FROM**  Margaret B. Pirkle, P.E., Assistant Director of Preconstruction  
**TO**  SEE DISTRIBUTION

**SUBJECT APPROVED NOTICE OF LOCATION AND DESIGN**

Attached for your further handling is the approved Location and Design Report on the above subject project.

Also attached is the Notice of Location and Design Approval. This is authorization for the District to proceed with advertisement.

MBP/cj

Attachment

**DISTRIBUTION:**

Brian Summers  
Harvey Keepler  
Jamie Simpson  
Paul Liles  
Keith Golden  
Ken Thompson  
Joe Palladi (file copy)  
Babs Abubakari  
Mike Thomas  
BOARD MEMBER



# Department of Transportation

HAROLD E. LINNENKOHL  
COMMISSIONER  
(404) 656-5206

DAVID E. STUDSTILL, JR., P.E.  
CHIEF ENGINEER  
(404) 656-5277

*State of Georgia*  
*#2 Capitol Square, S.W.*  
*Atlanta, Georgia 30334-1002*

LARRY E. DENT  
DEPUTY COMMISSIONER  
(404) 656-5212

EARL L. MAHFUZ  
TREASURER  
(404) 656-5224

**FILE:** EDS-545 (50) Emanuel/Jefferson County  
P.I. No. 222510

A handwritten signature in cursive script, likely belonging to Mohammed (Babs) Abubakari, with a circular stamp containing the initials "MH" to the right.

**FROM:** Mohammed (Babs) Abubakari, P.E.  
State Consultant Design & Program Delivery Engineer

**TO:** Meg Pirkle, P.E., Assistant Director of Preconstruction

**SUBJECT:** Location and Design Report

**OFFICE:** Consultant Design

**DATE:** June 14, 2005

## Description and Project Proposal

This project is the widening and reconstruction of U.S.1/S.R.4 from the northern terminus of the Swainsboro Bypass to C.R.104/Cordie Road in Emanuel County for a total of 6.4 miles. The existing roadway is a two-lane facility with rural shoulders within existing right-of-way that varies to 200 feet. This project is part of the Governor's Road Improvement Program (GRIP). The base year traffic (2009) is 3,400 ADT and the projected design year traffic (2029) is 5,600 ADT. The posted speed is 55 mph and the design speed is 65 mph.

The proposed construction will provide four 12 ft. lanes with a 44 ft. depressed grassed median for the project length. The proposed right-of-way varies from 205 ft. to 250 ft. The southern end of the project ties into the northern terminus of the Swainsboro Bypass. The northern end of the project ties into project EDS-545 (48) Emanuel County, which has a similar typical rural section. Traffic will be maintained utilizing stage construction.

## Concept Approval Date

The original concept report date was March 26, 1997.

## Concept Updates

There have been no updates to the concept report.

## Environmental Assessment

The approval of the Environmental Assessment is dated 3/25/04  
Finding of No Significant Impact dated 3/25/04

### **Public Involvement**

A location and Design Public Hearing was held for project 222510 on September 9, 2003 from 4:00 p.m. to 7:00 p.m. The public hearing was held at the Dellwood Baptist Church in the community of Dellwood located on U.S.1/S.R.4 north of Swainsboro, GA. All of the 30 citizens attending the hearing were given an opportunity to comment on the project. From those attending, four comment forms and one verbal statement were received, for a total of 5 comments. Also, written comments were accepted until September 19, 2003. No additional comments were received during the ten-day comment period following the hearing. Of those commenting, 1 gave general support, 2 were opposed, and 2 conditionally supported the project.

A Public Information Meeting was held on October 22, 2002 from 4:00 p.m. to 7:00 p.m. The meeting was held at the Dellwood Baptist Church in the community of Dellwood. All of the 41 citizens attending the meeting were given an opportunity to comment on the project. From those attending the meeting, ten comment forms were submitted. No letters or verbal statements were submitted and no additional comments were received during the ten-day comment period following the meeting. Hence, a total of ten comments were received. Of those commenting, 6 gave general support, 1 was opposed, 1 was uncommitted, and 2 conditionally supported the project.

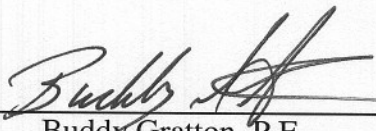
### **Consistency with Approval Planning**

The design description as presented herein and submitted for approval is consistent with the approved concept.


### **Recommendation**

It is recommended that the location and design for the project be approved and that the attached Notice be approved for advertising.

Concur:

  
Buddy Gratton, P.E.  
Director of Preconstruction

Approve:

  
David Studstill, P.E.  
Chief Engineer

- Attachments:
  - Location Map
  - Cost Estimate
  - Notice of Location and Design Approval

## **NOTICE OF LOCATION AND DESIGN APPROVAL**

### **PROJECT: EDS-545 (50), EMANUEL / JEFFERSON COUNTIES P. I. NO. 222510**

Notice is hereby given in compliance with Georgia Code 22-2-109 that the Georgia Department of Transportation has approved the Location and Design of the above projects.

Project EDS-545 (50), Emanuel County is located along U.S.1/S.R.4 from the northern terminus of the Swainsboro Bypass to C.R.104/Cordie Road for a distance of approximately 6.4 miles.

Date of Location and Design Approval: JUNE 22, 2005

Project EDS-545 (50), Emanuel County proposes the widening and reconstruction of U.S. 1 / S.R. 4 for a distance of 6.4 miles from the northern terminus of the Swainsboro Bypass to C.R.104/Cordie Road.

U. S. 1/ S.R. 4 is a primary north-south corridor in the eastern part of the state and is part of the Governor's Road Improvement Program (GRIP). The existing roadway is a two-lane facility with rural shoulders within existing right-of-way that varies to 200 feet. The proposed construction will provide four 12-foot lanes with a 44 ft. depressed grassed median. The proposed right-of-way varies from 205 ft. to 250 ft. Approximately 69% of the existing roadway requires reconstruction, with approximately 4.5 miles of new location required to correct substandard vertical curves and avoid historical resources. The northern end of the project ties into project EDS-545 (48), Emanuel County, with a similar rural section.

Drawings of the proposed project are on file and are available for public inspection at the Georgia Department of Transportation:

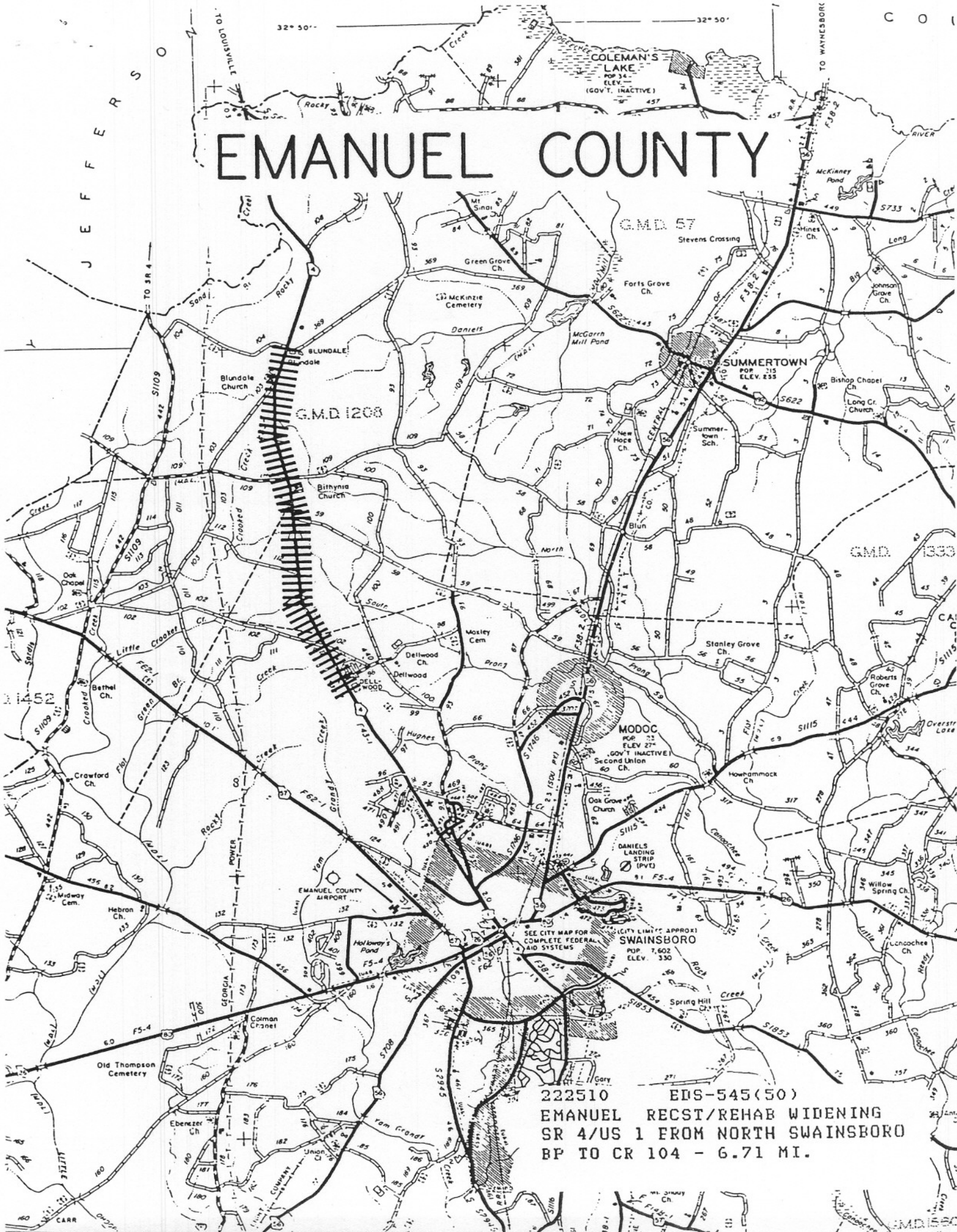
Bonnie D. McMakin  
Swainsboro Area Engineer  
Georgia Department of Transportation  
685 Kite Road  
Swainsboro, Ga. 30401  
Telephone (478) 289-2614

Any interested party may obtain a copy of the drawings or maps or portions thereof by paying a nominal fee and requesting in writing to:

Mohammed (Babs) Abubakari, P.E.  
State Consultant Design & Program Delivery Engineer  
Georgia Department of Transportation  
No. 2 Capitol Square, Room 432  
Atlanta, Georgia 30334  
Telephone (404) 463-6133

Any written request or communication in reference to this project should include the Project and P.I. Numbers as noted at the top of this notice.

# EMANUEL COUNTY



222510 EDS-545(50)  
EMANUEL RECONSTRUCTION/REHABILITATION WIDENING  
SR 4/US 1 FROM NORTH SWAINSBORO  
BP TO CR 104 - 6.71 MI.

**Section ROADWAY ITEMS**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1.00	LS	300000.00	TRAFFIC CONTROL -EDS-545(50)	300000.0
153-1300	1.00	EA	49465.29	FIELD ENGINEERS OFFICE TP 3	49465.29
201-1500	1.00	LS	1000000.00	CLEARING & GRUBBING -EDS-545(50)	1000000.0
205-0001	220967.00	CY	3.25	UNCLASS EXCAV	718142.75
206-0002	250124.00	CY	5.50	BORROW EXCAV, INCL MATL	1375682.0
207-0203	329.00	CY	33.85	FOUND BKFILL MATL, TP II	11136.65
212-1000	20000.00	CY	12.49	GRANULAR EMBANKMENT, INCL MATL & HAUL	249800.0
310-1101	148709.00	TN	15.00	GR AGGR BASE CRS, INCL MATL	2230635.0
318-3000	4000.00	TN	15.22	AGGR SURF CRS	60880.0
402-1812	3052.00	TN	38.54	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	117624.08
402-3121	47011.00	TN	40.00	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	1880440.0
402-3131	21558.00	TN	37.00	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL	797646.0
402-3190	32352.00	TN	41.00	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	1326432.0
413-1000	31006.00	GL	0.94	BITUM TACK COAT	29145.64
441-0104	130.00	SY	22.04	CONC SIDEWALK, 4 IN	2865.2
441-6222	231.00	LF	10.66	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	2462.46
456-2015	13.20	GLM	676.99	INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE (SKIP)	8936.26
634-1200	121.00	EA	83.24	RIGHT OF WAY MARKERS	10072.03
641-1200	2270.00	LF	10.99	GUARDRAIL, TP W	24947.3
641-5001	3.00	EA	419.84	GUARDRAIL ANCHORAGE, TP 1	1259.52
641-5012	3.00	EA	1383.53	GUARDRAIL ANCHORAGE, TP 12	4150.59
668-6000	1.00	EA	1910.71	SPRING BOX	1910.71

**Section Sub Total: \$10,203,633.50****Section DRAINAGE ITEMS**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
500-3101	298.00	CY	413.62	CLASS A CONCRETE	123258.76
511-1000	27563.00	LB	0.70	BAR REINF STEEL	19294.1
550-1180	5431.00	LF	27.78	STORM DRAIN PIPE, 18 IN, H 1-10	150873.18
550-1240	2481.00	LF	32.30	STORM DRAIN PIPE, 24 IN, H 1-10	80136.29
550-1300	700.00	LF	40.86	STORM DRAIN PIPE, 30 IN, H 1-10	28602.0
550-1360	174.00	LF	50.56	STORM DRAIN PIPE, 36 IN, H 1-10	8797.44
550-1420	166.00	LF	64.43	STORM DRAIN PIPE, 42 IN, H 1-10	10695.38
550-2180	1914.00	LF	22.68	SIDE DRAIN PIPE, 18 IN, H 1-10	43409.52
550-3318	6.00	EA	640.29	SAFETY END SECTION 18 IN, STORM DRAIN, 4:1 SLOPE	3841.74
550-3418	62.00	EA	470.30	SAFETY END SECTION 18 IN, SIDE DRAIN, 4:1 SLOPE	29158.60
550-3518	6.00	EA	570.35	SAFETY END SECTION 18 IN, STORM DRAIN, 6:1 SLOPE	3422.10
550-4218	61.00	EA	387.36	FLARED END SECTION 18 IN, STORM DRAIN	23628.96
550-4224	30.00	EA	463.37	FLARED END SECTION 24 IN, STORM DRAIN	13901.1
550-4230	10.00	EA	603.40	FLARED END SECTION 30 IN, STORM DRAIN	6034.0
550-4236	2.00	EA	720.38	FLARED END SECTION 36 IN, STORM DRAIN	1440.76
550-4242	2.00	EA	1051.98	FLARED END SECTION 42 IN, STORM DRAIN	2103.96
573-2006	5000.00	LF	10.89	UNDDR PIPE INCL DRAINAGE AGGR, 6 IN	54450.0
576-1010	1000.00	LF	19.87	SLOPE DRAIN PIPE, 10 IN	19870.0
668-2100	83.00	EA	1759.40	DROP INLET, GP 1	146030.2
668-2110	20.00	LF	175.01	DROP INLET, GP 1, ADDL DEPTH	3500.2

**Section Sub Total: \$772,448.30**

**Section TEMPORARY EROSION CONTROL**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	77.00	AC	447.01	TEMPORARY GRASSING	34419.77
163-0240	2233.00	TN	193.05	MULCH	431080.65
163-0300	10.00	EA	1041.36	CONSTRUCTION EXIT	10413.59
163-0503	21.00	EA	450.59	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3	9462.39
163-0530	2350.00	LF	2.16	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	5076.0
163-0531	1.00	EA	6089.71	CONSTRUCT AND REMOVE SEDIMENT BASIN, TP 1, STA NO -29+50 RT	6089.71
163-0531	1.00	EA	6089.71	CONSTRUCT AND REMOVE SEDIMENT BASIN, TP 1, STA NO -44+00 RT	6089.71
163-0531	1.00	EA	6089.71	CONSTRUCT AND REMOVE SEDIMENT BASIN, TP 1, STA NO -44+00 LT	6089.71
163-0531	1.00	EA	6089.71	CONSTRUCT AND REMOVE SEDIMENT BASIN, TP 1, STA NO -67+00 RT	6089.71
163-0531	1.00	EA	6089.71	CONSTRUCT AND REMOVE SEDIMENT BASIN, TP 1, STA NO -69+00 LT	6089.71
163-0531	1.00	EA	6089.71	CONSTRUCT AND REMOVE SEDIMENT BASIN, TP 1, STA NO -103+00 LT	6089.71
163-0531	1.00	EA	6089.71	CONSTRUCT AND REMOVE SEDIMENT BASIN, TP 1, STA NO -131+50 LT	6089.71
163-0531	1.00	EA	6089.71	CONSTRUCT AND REMOVE SEDIMENT BASIN, TP 1, STA NO -249+00 RT	6089.71
163-0531	1.00	EA	6089.71	CONSTRUCT AND REMOVE SEDIMENT BASIN, TP 1, STA NO -284+00 LT	6089.71
163-0531	1.00	EA	6089.71	CONSTRUCT AND REMOVE SEDIMENT BASIN, TP 1, STA NO -295+00 LT	6089.71
165-0010	20250.00	LF	0.97	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	19642.5
165-0030	5250.00	LF	1.20	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	6300.0
165-0060	2.00	EA	1376.98	MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO -29+50 RT	2753.96
165-0060	2.00	EA	1376.98	MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO -44+00 RT	2753.96
165-0060	2.00	EA	1376.98	MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO -44+00 LT	2753.96
165-0060	2.00	EA	1376.98	MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO -67+00 RT	2753.96
165-0060	2.00	EA	1376.98	MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO -69+00 LT	2753.96
165-0060	2.00	EA	1376.98	MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO -103+00 LT	2753.96
165-0060	2.00	EA	1376.98	MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO -131+50 LT	2753.96
165-0060	2.00	EA	1376.98	MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO -249+00 RT	2753.96
165-0060	2.00	EA	1376.98	MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO -284+00 LT	2753.96
165-0060	2.00	EA	1376.98	MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO -295+00 LT	2753.96
165-0070	1175.00	LF	1.20	MAINTENANCE OF BALED STRAW EROSION CHECK	1410.0
165-0087	21.00	EA	171.84	MAINTENANCE OF SILT CONTROL GATE, TP 3	3608.64
165-0101	10.00	EA	335.59	MAINTENANCE OF CONSTRUCTION EXIT	3355.89
167-1000	2.00	EA	2648.22	WATER QUALITY MONITORING AND SAMPLING	5296.44
167-1500	24.00	MO	666.85	WATER QUALITY INSPECTIONS	16004.40
171-0010	40500.00	LF	1.69	TEMPORARY SILT FENCE, TYPE A	68445.0
171-0030	10500.00	LF	3.08	TEMPORARY SILT FENCE, TYPE C	32340.0

**Section Sub Total: \$735,291.99**

**Section PERMANENT EROSION CONTROL**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
603-2180	500.00	SY	29.91	STN DUMPED RIP RAP, TP 3, 12 IN	14955.0
603-7000	500.00	SY	3.49	PLASTIC FILTER FABRIC	1745.0
700-6910	154.00	AC	739.28	PERMANENT GRASSING	113849.12
700-7000	693.00	TN	59.64	AGRICULTURAL LIME	41330.52
700-7010	578.00	GL	20.71	LIQUID LIME	11970.38
700-8000	208.00	TN	234.18	FERTILIZER MIXED GRADE	48709.44
700-8100	11550.00	LB	1.43	FERTILIZER NITROGEN CONTENT	16516.5
716-2000	77054.00	SY	1.12	EROSION CONTROL MATS, SLOPES	86300.48

**Section Sub Total: \$335,376.44****Section SIGNING ITEMS**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	251.00	SF	12.96	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	3252.96
636-1029	190.00	SF	20.01	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 3	3801.9
636-1031	398.00	SF	17.12	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING TP 6	6813.76
636-1032	81.00	SF	26.54	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING TP 6	2149.74
636-2070	1383.00	LF	6.46	GALV STEEL POSTS, TP 7	8934.18
636-2080	262.00	LF	8.72	GALV STEEL POSTS, TP 8	2284.64
636-2090	246.00	LF	7.13	GALV STEEL POSTS, TP 9	1753.98
636-3010	12.00	EA	236.64	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	2839.68

**Section Sub Total: \$31,830.84****Section PAVEMENT MARKINGS**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
653-0120	54.00	EA	56.18	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	3033.72
653-0170	26.00	EA	80.73	THERMOPLASTIC PVMT MARKING, ARROW, TP 7	2098.98
653-1501	84548.00	LF	0.25	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	21137.0
653-1502	79796.00	LF	0.23	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	18353.08
653-1704	718.00	LF	3.16	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	2268.88
653-3501	72724.00	GLF	0.13	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	9454.12
653-3502	181.00	GLF	0.13	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	23.53
653-6004	9701.00	SY	2.45	THERMOPLASTIC TRAF STRIPING, WHITE	23767.45
653-6006	454.00	SY	2.58	THERMOPLASTIC TRAF STRIPING, YELLOW	1171.32
654-1001	134.00	EA	3.20	RAISED PVMT MARKERS TP 1	428.8
654-1003	2218.00	EA	3.19	RAISED PVMT MARKERS TP 3	7075.42

**Section Sub Total: \$88,812.30****Total Estimated Cost: \$12,167,393.37**

<b>Subtotal Construction Cost</b>	<b>\$12,167,393.37</b>
E&C Rate 10.0 %	\$1,216,739.34
Inflation Rate 5.0 % @ 2.0 Years	\$1,371,873.60

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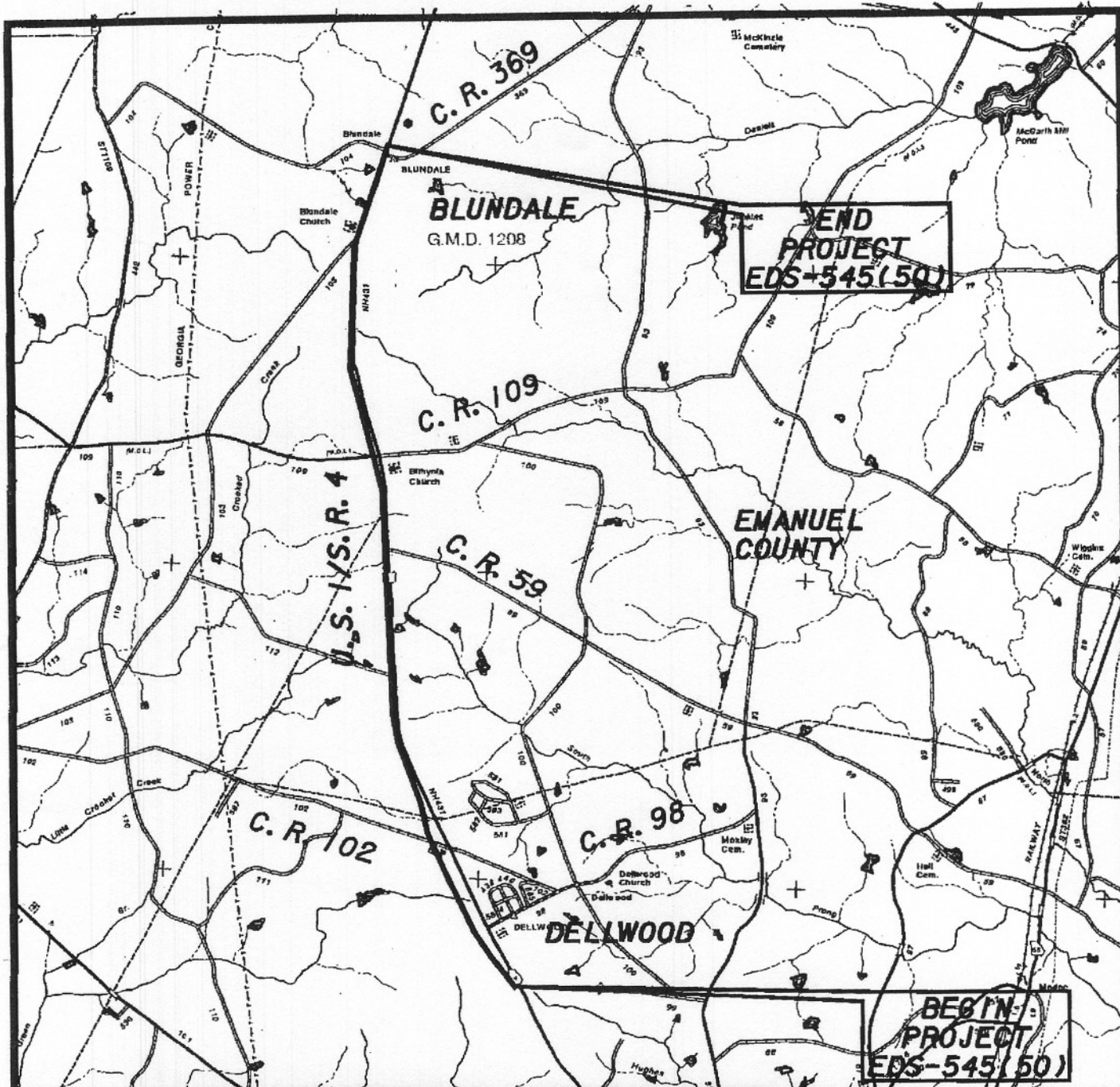
<b>Total Construction Cost</b>	<b>\$14,756,006.31</b>
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Right Of Way	\$2,049,000.00
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ReImb. Utilities	\$34,000.00
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<b>Grand Total Project Cost</b>	<b>\$16,839,006.31</b>
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PLAN AND PROFILE OF PROPOSED  
U. S. 1/S. R. 4 IMPROVEMENTS  
Federal Aid Project  
EDS-545(50)  
EMANUEL COUNTY

P. I. NO. :222510

NOV. 2004